

C1 combustible elements, or mixtures thereof, and materials selected from the group consisting of batch materials, cullet, vitrifiable waste, and mixtures thereof.

57. (Amended) Apparatus comprising:

C2 at least one melting chamber equipped with burners which are fed with at least one natural gas fossil fuel and with an air or oxygen oxidizer, the said burners being placed so as to inject said fuel and oxidizer, or gases resulting from combustion of said fuel and oxidizer, below the level of the mass of vitrifiable materials introduced into said melting chamber; said vitrifiable materials comprising liquid or solid combustible elements, or mixtures thereof, and materials selected from the group consisting of batch materials, cullet, vitrifiable waste, and mixtures thereof.

Please add the following new Claims 100-114:

sub D5 100. (New) A process of manufacturing glass comprising performing the process of claim 38 during said manufacturing.

101. (New) The process according to claim 100, wherein the glass is flat glass.

C3 102. (New) The process according to claim 101, wherein the flat glass has a residual blue color and a solar-protection or fire-resistance function.

103. (New) The process according to claim 100, wherein the glass is in the form of a bottle or a flask.

104. (New) The process according to claim 100, wherein the glass is glass wool or glass fiber.

sub D6 105. (New) A process of recycling metal/glass or plastic/glass composite materials comprising performing the process of claim 38 during said recycling.

106. (New) A process of manufacturing an electronic part comprising performing the process of claim 38 during said manufacturing.

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sub DP 1 107. (New) An apparatus for manufacturing glass comprising employing the apparatus of claim 57 during said manufacturing.

108. (New) The apparatus according to claim 100, wherein the glass is flat glass.

109. (New) The apparatus according to claim 101, wherein the flat glass has a residual blue color and a solar-protection or fire-resistance function.

110. (New) The apparatus according to claim 100, wherein the glass is in the form of a bottle or a flask.

111. (New) The apparatus according to claim 100, wherein the glass is glass wool or glass fiber.

112. (New) An apparatus for recycling metal/glass or plastic/glass composite materials comprising employing the apparatus of claim 57 during said recycling.

113. (New) An apparatus for manufacturing an electronic part comprising employing the apparatus of claim 57 during said manufacturing.

sub DP 1 114. (New) Apparatus for melting vitrifiable materials comprising:  
at least one melting chamber equipped with burners which are fed with at least one natural gas fossil fuel and with an air or oxygen oxidizer, the said burners being placed so as to inject said fuel and oxidizer, or gases resulting from combustion of said fuel and oxidizer, below the level of the mass of vitrifiable materials introduced into said melting chamber; and  
means for refining the molten vitrifiable materials in the form of a thin layer, in the melting chamber or in at least one refining compartment downstream of said chamber.